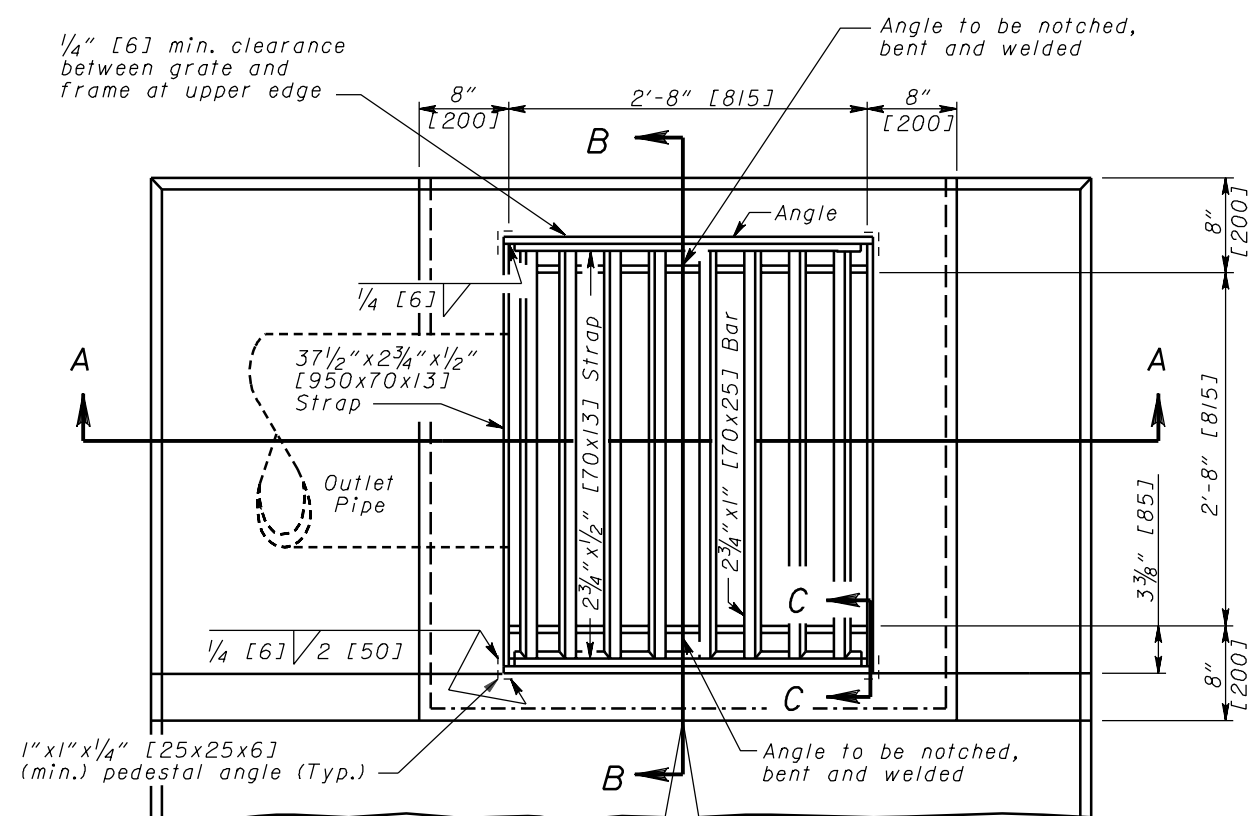


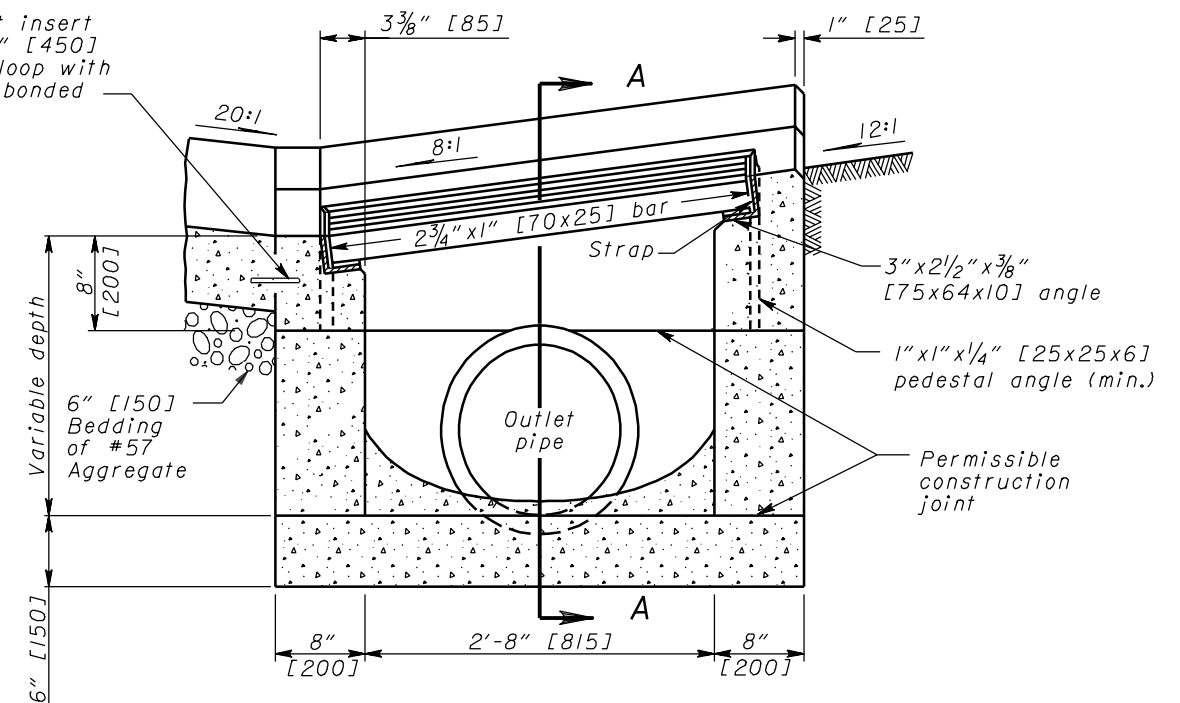
SECTION A-A

See Sht. 2/2 for NOTES

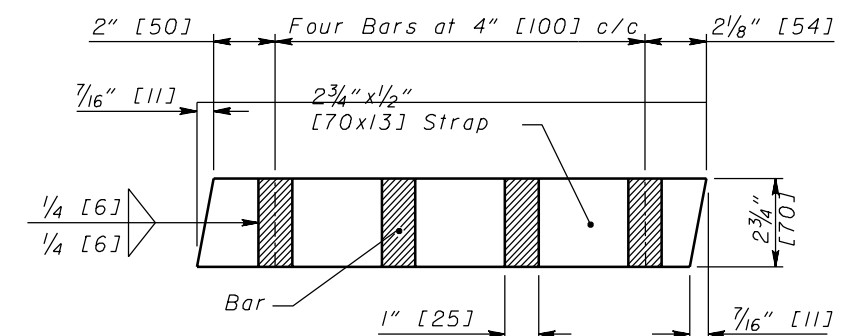


PLAN OF CATCH BASIN

# CATCH BASIN No. 8

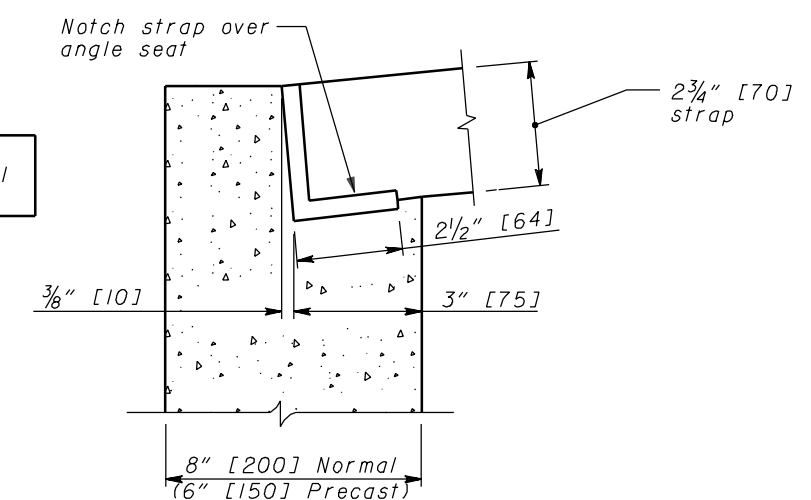


SECTION B-B

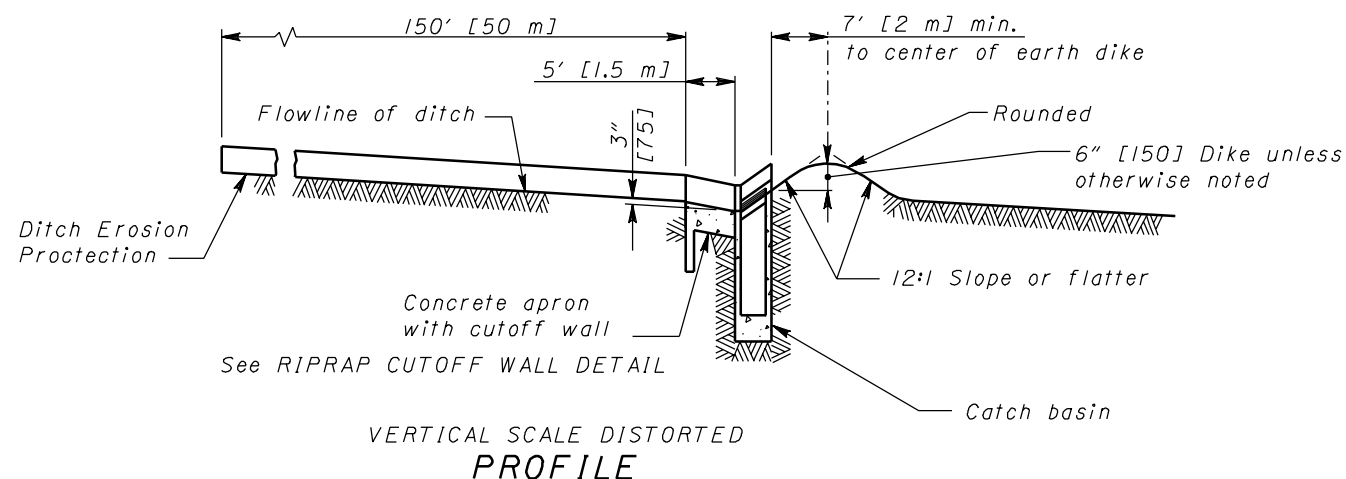
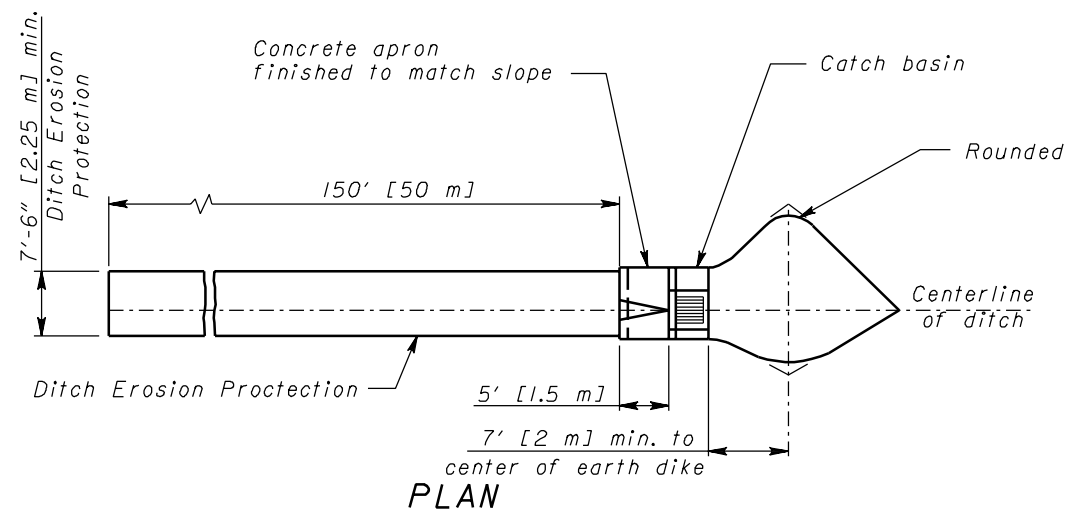


SECTION THRU HALF OF GRATE "C"

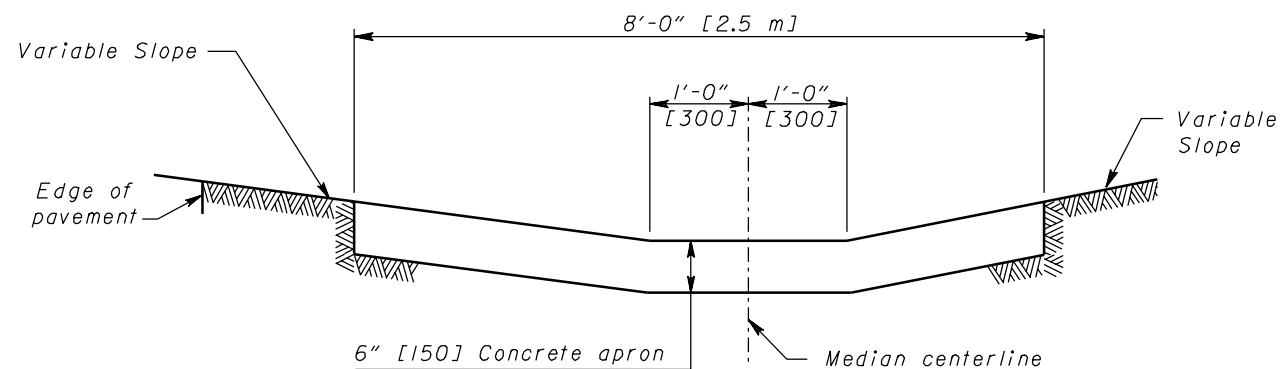
NOTE: 1" x 1" x 1/4" [25x25x6] pedestal angles not shown



SECTION C-C



## MEDIAN GRADING AT CATCH BASIN



## UPSTREAM END VIEW OF CONCRETE APRON OR GROUTED RIPRAP

### CONSTRUCTION INFORMATION

Typical weight [mass] of grate = 245 lbs. [111 kg]  
Typical weight [mass] of frame = 65 lbs. [29 kg]

## NOTES

**GRATE AND FRAME:** Shall be of structural steel in accordance with CMS 711.01 and 513. The design shall be essentially the same and equally as strong as the one shown.

**GRATE:** Grate shall be depressed 3" [75] below the upstream end of the concrete apron at the centerline of the ditch.

**WALLS:** Brick or cast-in-place walls shall have a nominal thickness of 8" [200] from the bottom slab to the upper box.

**PRECAST CONSTRUCTION:** Permitted, except for the apron. Concrete shall meet the requirements of CMS 706.13. Precast walls shall have a minimum thickness of 6" [150] and reinforcing shall be sufficient to permit shipping and placement without damage. The wall thickness reduction shall be from the outside.

**STEPS:** Steps meeting the requirements of **SCD MH-1.1** shall be provided where the depth exceeds 6' [1.8 m].

**BASINS OVER 12 FEET [3.5 m] IN DEPTH:** Shall be precast or cast-in-place concrete; reinforced with #4 [#13M] bars on 12" [300] centers both vertically and horizontally with 2" [50] clearance from inside wall face.

**LOCATION AND ELEVATION:** When given on the plans the location is at the center of the grate. The elevation is the lowest point on the grate.

**OPENINGS:** Pipe openings shall be the outside diameter of the pipe being supplied plus 2" [50] when prefabricated or field cut. The interstitial space shall be filled with grout per CMS 601.

**CONCRETE APRONS:** Aprons are to be constructed in such a manner that the outside edges are at equal elevation.

If specified in the plans, grouted riprap may be used in place of the concrete apron.

**DITCH PROTECTION:** Provide a 150' [50 m] length of ditch erosion protection as shown. Installation and payment for the ditch erosion protection shall comply with CMS 670.

**BASINS IN SAG:** When in a sag, omit the earth dike and longitudinal slope of grate, and provide concrete apron and ditch protection on each side of the basin.

**PAYMENT:** The concrete apron with cutoff wall or grouted riprap and dike shall be considered incidental to **Item 604 - Catch Basin, No. 8**. However, the apron is not required when **Item 604 - Catch Basin, No. 8, Without Apron** is specified.

When itemized separately, payment for Item 601 Riprap using 6" Reinforced Concrete Slab shall include the cost of the cutoff wall.

